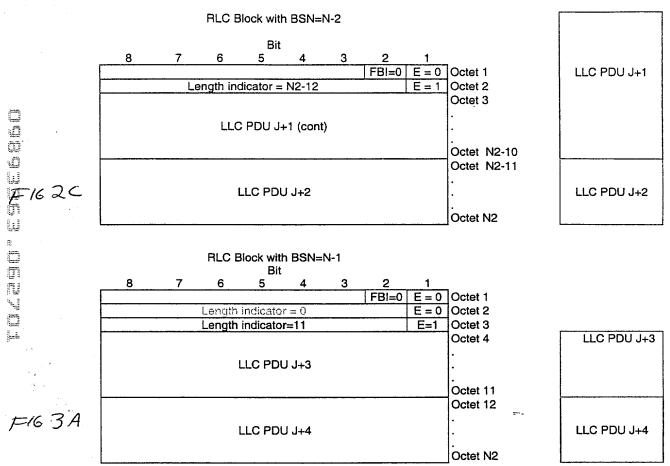


First 2 RLC blocks of a TBF

| •       |   |                            |
|---------|---|----------------------------|
| •       | 1 <sup>st</sup> RLC Block   | LLC PDU                    |
| •       | Bit<br>8 7 6 5 4 3 2 1  |                            |
|         | FBI=0   E = 0   |                            |
|         | Length indicator = 11         E = 0         Octet 1           Length indicator = 26         E = 1         Octet 2 |                            |
|         | Octet 3   | LLC PDU 1                  |
|         | LLC PDU 1 (cont)  | 1 <sup>st</sup> PDU of the |
|         | Octet 13  | TBF                        |
|         | Octet 14  |                            |
|         | LLC PDU 2 . Octet 15  | LLC PDU 2                  |
|         |   |                            |
|         | Octet 39  |                            |
|         | Octet 40<br>Octet 41  |                            |
| *       | LLC PDU 3   | LLC PDU 3                  |
|         |   | LLC FD0 3                  |
| F162A   | Octet N2-1<br>Octet N2  |                            |
|         |   |                            |
|         |   | l                          |
|         | 2 <sup>nd</sup> RLC block of the TBF<br>Bit   |                            |
|         | 8 7 6 5 4 3 2 1   |                            |
| ·       | FBI=0   E = 0   | LLC PDU 3                  |
|         | Length indicator = 26   |                            |
|         | Octet 3   |                            |
|         | LLC PDU 3 (cont)  |                            |
|         | Octet 13<br>Octet 14  |                            |
|         | Octet 15  |                            |
|         | LLC PDU 4   | LLC PDU 4                  |
|         | <br> -<br>  Octet 39  |                            |
| F16.2B  | Octet 40  |                            |
| , 10 20 | Octet 41  |                            |
|         | LLC PDU 5   | LLC PDU 5                  |
|         | Octet N2-1  |                            |
|         | Octet N2  |                            |
|         |   |                            |

## Last 3 RLC Blocks of a TBF that has N Blocks



RLC Block with BSN=N Bit 2 FBI=1 5 E=0 Octet 1 Octet 2 E=0 Leigh Indict-=0 Octet 3 E=0 Length indicator=8 Octet 4 Length indicator=11 E=0 Octet 5 E=1 Length indicator=127 LLC PDU J+5 Octet 6 LLC PDU J+5 Octet 11 Octet 12 LLC PDU J+6 LLC PDU J+6 Octet 22 Filling Octets Octet N2

F16.30

## At the end of a TBF

F16. 4

## Examples for Delimitation of LLC PDU in EGPRS RLC data block (Down-link)

First 2 RLC blocks of a TBF

|  |         | Block  |              |              |              |              |               |       | LLC PDU      |   |
|--|---------|--|--------------|--------------|--------------|--------------|---------------|-------|--------------|---|
|  | Bit     |  |              |              |              |              |               |       |              |   |
|  | 8       | 7  | 6            | 5            | 4            | 3            | 2             | 11    |              |   |
|  | -       | <del>                                     </del> | +            | +            | +            | <del> </del> | FBI=0         | F = 0 | <u> </u>     | <del></del>                               |
|  | Length  | indicate   | or = 11      | <u> </u>     |              |              | 1             | E = 0 | Octet 1      |   |
|  | Length  | indicate   | 2r = 26      |              |              |              |               | E = 1 | Octet 2      |   |
|  | Cengui  | Indicat  | 7 - 20       |              |              |              | <del>-)</del> |       | Octet 3      | <del></del>                               |
|  | TCB     | DU 1 (c  | ont          |              |              |              | 1             | l     |              | sr -                                      |
|  |         | the TBI  |              |              |              |              |               |       | LLC PDU 1 1  |   |
|  | PD0 01  | tile i bi  |              |              |              |              |               |       | 10-5-142     | <del></del>                               |
|  |         | ļ  |              | <u> </u>     | ļ            |              |               |       | Octet 13     |   |
|  |         |  |              |              |              | İ            |               |       | Octet 14     |   |
| FICE   | L       |  | 1            | 1            |              |              |               |       | Octet 15     |   |
| F16.5A   | LLC PI  | DU 2   |              |              |              |              |               |       | LLC PDU 2    |   |
| •  |         |  |              |              |              |              |               |       | Octet 39     |   |
| -  |         |  |              |              |              |              | T             |       | Octet 40     |   |
|  |         |  |              |              | 1            |              | T             |       | Octet 41     |   |
|  | LLCP    | DU 3   | ~            |              |              |              |               |       | LLC PDU 3    |   |
| 1  |         |  | T            |              | 1            |              | T             |       | Octet N2-1   |   |
| a com  |         |  | <del> </del> | <del> </del> | <del> </del> |              | <del> </del>  |       | Octet N2     |   |
|  |         | <del> </del>                                     | <del> </del> | <del> </del> | <del> </del> | <del> </del> | <del> </del>  |       |              | +   |
| 3. <u> </u>  |         |  | <del> </del> | <del> </del> | <del> </del> |              | <del> </del>  |       | <del> </del> | +   |
| 2 B  |         | L  | <u> </u>     | <del></del>  | <u> </u>     | L            | <del></del>   | L     | <u> </u>     |   |
|  | Post DC | N 611.   |              | ne           |              |              |               |       |              | ·, ·- ·- ·- ·- ·- ·- ·- ·- ·- ·- ·- ·- ·- |
| 1  |         | DIOCK  | of the T     | BL           |              |              |               |       | <u> </u>     |   |
| ıİ   | Bit     | -  | TO           |              |              |              |               |       | <u> </u>     |   |
| · <del></del>  | 8       | 1  | 6            | 5            | 4            | 3            | 2             | 1     |              |   |
|  |         |  | l            | <u> </u>     | 1            |              | FBI=0         |       | <u> </u>     |   |
|  |         | indicate   | or = 11      |              |              |              |               | E = 0 | Octet 1 LLC  |   |
|  | PDU 3   |  |              |              |              |              |               |       |              |   |
| : <del>!</del>   | Length  | indicate   | or = 26      |              |              |              |               | E=1   | Octet 2      |   |
|  |         |  |              |              |              |              |               |       | Octet 3      |   |
| 1  | LLCP    | DU 3 (c  | ont)         |              |              |              |               |       | T            |   |
|  |         |  |              |              |              |              | T             |       | Octet 13     |   |
|  |         |  |              | ļ            |              |              | 1             |       | Octet 14     |   |
| T10 FD   |         |  |              | 1            |              |              |               |       | Octet 15     |   |
| in the state of th | LLC PL  | DU 4   | <del></del>  |              | ۰            | L            | -L            | L     | LLC PDU 4    | <del> </del>                              |
|  |         | T -  | T            | T            | T            | 1            |               |       | Octet 39     |   |
|  |         | -  | <del> </del> | <del> </del> | <del> </del> |              | <del> </del>  |       | Octet 40     | +   |
|  | }       |  | <del> </del> | <del> </del> | <del> </del> |              |               |       | Octet 41     | <del></del>                               |
|  | LLCP    | DUS  | L            | <u> </u>     |              | L            |               |       | LLC PDU 5    |   |
|  |         |  | r            |              |              |              |               |       | Octet N2-1   | +   |
|  |         |  | <del> </del> |              | ļ            |              | <del> </del>  |       | Octet N2     | <del>- </del>                             |
|  |         |  | ļ            |              | ļ            |              | ļ             |       | OCIGI INZ    |   |
|  |         | ļ  | <del> </del> | <del> </del> | ļ            |              | <del> </del>  |       |              |   |
|  |         |  | <u> </u>     | <u> </u>     | <del></del>  |              | L             |       | L            |   |
|  |         |  |              |              |              |              |               |       |              |   |

## Last 3 RLC Blocks of a TBF that has N Blocks

| 3it    |                     |          |          |               |   |       |                                       |                                       |   |
|--------|---------------------|----------|----------|---------------|---|-------|---------------------------------------|---------------------------------------|---|
| 8      | 17                  | 6        | 5        | 4             | 3 | 2     | 11                                    |                                       |   |
|        |                     |          |          |               |   | FBI=0 | E = 0                                 | Octet 1                               | LLC PDU J+                              |
| 1      |                     |          | <u> </u> | <del>  </del> | · |       | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · ·   |
| Length | n indicato          | r = N2-1 | 3        |               |   |       | E = 1                                 | Octet 2                               |   |
|        | -                   |          |          |               |   |       |                                       | Octet 3                               |   |
| LLCF   | ז+1 טסי             | (cont)   |          |               |   |       | <del></del>                           | 1                                     |   |
|        |                     | <u> </u> |          |               |   |       |                                       | Octet N2-11                           |   |
|        |                     |          |          |               | - |       |                                       | Octet N2-10                           | *************************************** |
| LLC F  | יטט' <sub>J+2</sub> |          |          |               |   |       | J                                     |                                       | LLC PDU J+                              |
| 2      |                     |          |          |               |   |       |                                       |                                       |   |
|        |                     |          |          |               | 7 |       |                                       | Octet N2                              | - T                                     |

F16.6B

| CTC.  | lock with   | 0011                                     |   |   | ** |            |                   | +  |            |
|---|---|--|---|---|----|------------|-------------------|--|------------|
| 3it   |   | 6  | 5 | 4 | 3  | 7          | 1                 |  |            |
| 3   |   | U  |   | - |    | 2<br>FBI=0 | Ė = 0             | Octet 1  |            |
|   | 775 (30 (   |  |   |   |    | 1.01.0     | E = 0             | Octet 2  |            |
| -enger  | insida or   | <u> </u>                                 |   |   |    |            | E=1               | Octet 3  |            |
| <u>-engin</u>   | indicator   | - 0                                      |   |   |    |            |                   | Octet 4  | LLC        |
| DU J+   |   |  |   |   |    |            | L                 | 0 0.0.   |            |
|   | DU J+3  |  |   |   |    |            |                   |  |            |
| LLU P   | DO 3+3  |  |   |   |    |            |                   | Octet 11   |            |
|   |   |  |   |   |    |            | -                 | Octet 12   |            |
| 1100  | DU J+4  |  |   |   |    |            | 1                 |  | LLC PDU J+ |
| LLUP  | UU J+4  |  |   |   |    | 400        |                   | 1  | 1          |
| <u> </u>  |   |  |   |   | т  |            |                   | Octet N2   |            |
|   |   |  |   | L |    |            |                   | 70000000   |            |
| 3it   |   | BSN=N                                    |   |   |    |            | 2.1m y            |  |            |
|   | 17  |  |   | 4 | 13 | 2          | 11                |  |            |
|   | 7   | 6  | 5 | 4 | 3  | 2<br>FBI=1 | 1<br>E=0          | Octet 1  |            |
| 8   |   | 6  |   | 4 | 3  |            |                   | Octet 1<br>Octet 2   |            |
| 8<br>Lencth   | indicato  | 6<br>= 0                                 |   | 4 | 3  |            | E=0               |  |            |
| 8<br>Lencth<br>Lenath                                   | indicato  | 6<br>= 0<br>==6                          |   | 4 | 3  |            | E=0<br>E=0        | Octet 2  |            |
| 8<br>Length<br>Length<br>Length                         | indicator   | 6<br>= 0<br>==6<br>==11                  |   | 4 | 3  |            | E=0<br>E=0<br>E=0 | Octet 2<br>Octet 3<br>Octet 4<br>Octet 5                   |            |
| 8<br>Length<br>Length<br>Length                         | indicato  | 6<br>= 0<br>==6<br>==11                  |   | 4 | 3  |            | E=0<br>E=0<br>E=0 | Octet 2<br>Octet 3<br>Octet 4                              | LLC        |
| 8<br>Length<br>Length<br>Length<br>Length               | n indicator<br>n indicator<br>n indicator<br>n indicator                            | 6<br>= 0<br>==6<br>==11                  |   | 4 | 3  |            | E=0<br>E=0<br>E=0 | Octet 2<br>Octet 3<br>Octet 4<br>Octet 5                   | LLC        |
| Eength<br>Length<br>Length<br>Length                    | n indicator<br>n indicator<br>n indicator<br>n indicator                            | 6<br>= 0<br>==6<br>==11                  |   | 4 | 3  |            | E=0<br>E=0<br>E=0 | Octet 2 Octet 3 Octet 4 Octet 5 Octet 6                    | LLC        |
| 8<br>Length<br>Length<br>Length<br>Length               | n indicator<br>n indicator<br>n indicator<br>n indicator                            | 6<br>= 0<br>==6<br>==11                  |   | 4 | 3  |            | E=0<br>E=0<br>E=0 | Octet 2 Octet 3 Octet 4 Octet 5 Octet 6                    | LLC        |
| 8<br>Length<br>Length<br>Length<br>Length               | n indicator<br>n indicator<br>n indicator<br>n indicator                            | 6<br>= 0<br>==6<br>==11                  |   | 4 | 3  |            | E=0<br>E=0<br>E=0 | Octet 2 Octet 3 Octet 4 Octet 5 Octet 6                    |            |
| Ength<br>Length<br>Length<br>Length<br>Length<br>PDU J- | n incicato<br>n indicato<br>n indicato<br>n indicato<br>n indicato<br>+5<br>PDU J+5 | 6<br>= 0<br>==6<br>==11                  |   | 4 | 3  |            | E=0<br>E=0<br>E=0 | Octet 2 Octet 3 Octet 4 Octet 5 Octet 6                    |            |
| Lencth Length Length Length Length Length LEC P         | n indicator<br>n indicator<br>n indicator<br>n indicator                            | 6<br>= 0<br>==6<br>==11                  |   | 4 | 3  |            | E=0<br>E=0<br>E=0 | Octet 2 Octet 3 Octet 4 Octet 5 Octet 6  Octet 11 Octet 12 |            |
| Length<br>Length<br>Length<br>Length<br>Length<br>LLC P | n incicato<br>n indicato<br>n indicato<br>n indicato<br>n indicato<br>+5<br>PDU J+5 | 6<br>= 0<br>==6<br>==11                  |   | 4 | 3  |            | E=0<br>E=0<br>E=0 | Octet 2 Octet 3 Octet 4 Octet 5 Octet 6  Octet 11 Octet 12 | LLC PDU J+ |
| Eength Length Length Length Length LEC P                | n incicato<br>n indicato<br>n indicato<br>n indicato<br>n indicato<br>+5<br>PDU J+5 | 6<br>  = 0<br>  ==6<br>  ==11<br>  ==127 | 5 |   | 3  |            | E=0<br>E=0<br>E=0 | Octet 2 Octet 3 Octet 4 Octet 5 Octet 6  Octet 11 Octet 12 |            |
| Length<br>Length<br>Length<br>PDU J-<br>LLC P           | n incicato<br>n indicato<br>n indicato<br>n indicato<br>n indicato<br>+5<br>PDU J+5 | 6<br>  = 0<br>  ==6<br>  ==11<br>  ==127 |   |   | 3  |            | E=0<br>E=0<br>E=0 | Octet 2 Octet 3 Octet 4 Octet 5 Octet 6  Octet 11 Octet 12 |            |

Example 3: A TBF consists of one LLC PDU

| LLC PDU |
|---------|
| LLC     |